40/564020 **AP20 Residentiffto** 09 JAN 2006

BOZZON~1.TXT SEQUENCE LISTING

<110> Università degli Studi di Roma "La Sapienza"

Bozzoni, Irene

Denti, Michela Alessandra

Rosa, Alessandro

<120> siRNA expression system

<130> OC/PCT 82806

<140> PCT/IT2004/000381

<141> 2004-07-09

<150> RM 03/A000335

<151> 2003-07-09

<160> 29

<170> PatentIn version 3.1

<210> 1

<211> 11

<212> RNA

<213> Artificial Sequence

<220> pre-siRNA 3' terminus

<223> pre-siRNA 3' terminus

<220> pre-siRNA 3' terminus

<221> misc_feature

<222> (1)..(11)

<223> pre-siRNA 3' terminus

<400> 1 guccccuauu u

<210>	· 2	
<211>	30	
<212>	DNA	
<213>	Artificial sequence	
<220>	linkup oligonucleotide	
<223>	linkup oligonucleotide	
<220>	linkup oligonucleotide	
<221>	misc_feature	
<222>	(1)(30)	
<223>	linkup oligonucleotide	
<220>	linkup oligonucleotide	
<221>	misc_feature	
<222>	(1)(30)	
<223>	linkup oligonucleotide	
<400>	2 ggtac cctcgaggct agcggatccg	
gacci	ggtac ceregagger ageggateeg	
<210>	3	
<211>	30	
<212>	DNA	
<213>	Artificial sequence	
<220>	linkdown oligonucleotide	
<223>	linkdown oligonucleotide	
<220>	linkdown oligonucleotide	
<221>	misc_feature	
<222>	(1)(30)	
<223>	linkdown oligonucleotide	
<220>	linkdown oligonucleotide	
<221>	misc_feature .	;

30

<222>	BOZZON~1.TXT (1)(30)	
<223>	linkdown oligonucleotide	
	3	
ctagcg	ggatc cgctagcctc gagggtacca	30
<210>	4	
<211>	98	
<212>	DNA	
<213>	Artificial sequence	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
224		
<221>	misc_feature	
	(1)(98)	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<400>	4	
	atac agggcaattg gcagatcaag cgtttgtgta gcgcttgatc tgccaattgc	60
ccttta	tccc ctgactttct ggagtttcaa aagtagac	98
<210>	5	
<211>	98	
<212>	DNA	
<213>	Artificial sequence	
<220>	Homo sapiens sequence with an artificial sequence at the 3' t	ermi
<223>	Homo sapiens sequence with an artificial sequence at the 3' te ni	rmi
<220>	Homo sapiens sequence with an artificial sequence at the 3' t	ermi
<221>	misc_feature	
<222>	(1)(98)	

<223> Homo sapiens sequence with artificial 5' and 3' termini

<400> tcgagt	5 ctac ttttgaaact ccagaaagtc aggggataaa gggcaattgg cagatcaagc	60
gctaca	caaa cgcttgatct gccaattgcc ctgtatga	98
<210>	6	
<211>	98	
<212>	DNA	
<213>	Artificial sequence	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<221>	misc_feature	
<222>	(1)(98)	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<400>	6 atac agggcaattg gcagatcaag cgtttgtgta gcgcttgatc tgccaattgc	60
	tccc ctgactttct ggagtttcaa aagtagac	98
<210>	7	
<211>	98	
<212>		
<213>	Artificial sequence	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<221>	misc_feature	
<222>	(1)(98)	
<223>	Homo sapiens sequence with artificial 5' and 3' ends	
-220		
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<221>	misc_feature Page 4	

<222>	(1)(98)	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<400>		٠.
	ctac ttttgaaact ccagaaagtc aggggataaa gggcaattgg cagatcaagc	60
yctaca	caaa cgcttgatct gccaattgcc ctgtatga	98
<210>	8	
<211>	84	
<212>	DNA	
<213>	Artificial sequence	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<221>	misc_feature	
<222>	(1)(84)	
<223>	Homo sapiens sequence with artificial 5' and 3' ends	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<221>	misc_feature	
<222>	(1)(84)	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<400> gatctc	8 gggc aattggcaga tcaagcgttt gtgtagcgct tgatctgcca attgccctta	60
	ggag tttcaaaagt agac	84
<210>	9	
<211>	84	
<212>	DNA	
<213>	Artificial sequence	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<223>	Homo sapiens sequence with artificial 5' and 3' termini Page 5	
	· ~g ~ J	

<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<221>	misc_feature	
<222>	(1)(84)	
<223>	Homo sapiens sequence with artificial 5' and 3' ends	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<221>	misc_feature	
<222>	(1)(84)	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<400> ctgagt	9 ctac ttttgaaact ccagaaagta agggcaattg gcagatcaag cgctacacaa	60
acgctt	gatc tgccaattgc ccga	84
<210>	10	
<211>	113	
<212>	DNA	
<213>	Artificial sequence	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<221>	misc_feature	
<222>	(1)(113)	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<400> gatctc	10 gggc aattggcaga tcaagcgttt gacttcgcat gaatgagttc attcatgaag	60
cgaaac	gctt gatctgccaa ttgcccttac tttctggagt ttcaaaagta gag	113
<210>	11	
<211>	113	
<212>	DNA	
<213>	Artificial sequence	

<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<221>	misc_feature	
<222>	(1)(113)	
<223>	Homo sapiens sequence with artificial 5' and 3' ends	
<220>	Homo sapiens sequence with artificial 5' and 3' termini	
<221>	misc_feature	
<222>	(1)(113)	
<223>	Homo sapiens sequence with artificial 5' and 3' termini	
<400> ctaqct	11 ctac ttttgaaact ccagaaagta agggcaattg gcagatcaag cgtttcgctt	60
	tgaa ctcattcatg cgaagtcaaa cgcttgatct gccaattgcc cga	113
,	Janes Sangerand og Colgarot geeddelgee ega	113
<210>	12	
<211>	84	
<212>	DNA	
<213>	Artificial Sequence	
<220>	Homo sapiens sequence with artificial 5' and 3' ends mutated residue in position 16, 17 and 47,48	
<223>	Homo sapiens sequence with artificial 5' and 3' ends mutated residue in position 16, 17 and 47,48	
<220>	Homo sapiens sequence with artificial 5' and 3' ends mutated residue in position 16, 17 and 47,48	
<221>	misc_feature	
<222>	(1)(84)	
<223>	Homo sapiens sequence with artificial 5' and 3' ends mutated residue in position 16, 17 and 47,48	
<400>		
	gggc aattgcgaga tcaagcgttt gtgtagcgct tgatctcgca attgccctta	60
ctttct	ggag tttcaaaagt agac	84
<210>	13	
<211>	84	

<212>	DNA	
<213>	Artificial Sequence	
<220>	Homo sapiens sequence with artificial 5' and 3' ends Mutated residues 41,42 and 72,73	
<223>	Homo sapiens sequence with artificial 5' and 3' ends Mutated residues 41,42 and 72,73	
<220>	Homo sapiens sequence with artificial 5' and 3' ends Mutated residues 41,42 and 72,73	
<221>	misc_feature	
<222>	(1)(84)	
<223>	Homo sapiens sequence with artificial 5' and 3' ends Mutated residues 41,42 and 72,73	
<400> ctgagt	13 ctac ttttgaaact ccagaaagta agggcaattg cgagatcaag cgctacacaa	60
	gatc tcgcaattgc ccga	84
<210>		
	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>	human probe	
<223>	human probe	
<220>	human probe	
<221>	misc_feature	
<222>	(1)(20)	
<223>	human probe	
<400>	14	
	tggc agatcaagcg	20
<210>	15	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	

<220>	mutated probe in position 9,10	
<223>	mutated probe in position 9,10	
<220>	mutated probe in position 9,10	
<221>	misc_feature	
<222>	(1)(20)	
<223>	mutated probe in position 9,10	
<400>	15	2.0
yycaat	tgcg agatcaagcg	20
<210>	16	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>	alpha probe	
<223>	alpha probe	
<220>	alpha probe	
<221>	misc_feature	
<222>	(1)(20)	
<223>	alpha probe	
<400>	16	
cyctty	atct gccaattgcc	20
<210>	17	
<211>	15	
<212>	DNA	
<213>	Artificial Sequence	
<220>	box element	
<223>	box element	
<220>	box element	
<221>	misc_feature	
<222>	(1)(15)	
<223>	box element	

Page 9

<400> gtttca	17 naaag tagac	15
<210>	18	
<211>	30	
<212>	DNA	
<213>	Artificial Sequence	
<220>	terminator element	
<223>	terminator element	
<220>	terminator element	
<221>	misc_feature	
<222>	(1)(30)	
<223>	terminator element	
<400> cccctr	18 Cttt ctggagtttc aaaagtagac	30
<211>	399	
<212>	DNA	
<213>	Artificial sequence	
	•	
<220>	Homo sapiens sequence with artificial 5' and 3' ends named U1 m	pro
<223>	Homo sapiens sequence with artificial 5' and 3' ends named U1 p	ro
<220>	Homo sapiens sequence with artificial 5' and 3' ends named U1 m	pro
<221>	misc_feature	
<222>	(1)(399)	
<223>	Homo sapiens sequence with artificial 5^{\prime} and 3^{\prime} ends named U1 p m	ro
<220>	Homo sapiens sequence with artificial 5' and 3' ends named U1 m	pro
<221>	misc_feature	

<222>	(1)(399)	
<223>	Homo sapiens sequence with artificial 5' and 3'named U1 prom	
<400>	19	60
	cggta aggaccagct tctttgggag agaacagacg caggggcggg agggaaaaag	60
	ggcag acgtcacttc cccttggcgg ctctggcagc agattggtcg gttgagtggc	120
agaaag	gcag acggggactg ggcaaggcac tgtcggtgac atcacggaca gggcgacttc	180
tatgta	agatg aggcagcgca gaggctgctg cttcgccact tgctgcttca ccacgaagga	240
gttccc	gtgc cctgggagcg ggttcaggac cgctgatcgg aagtgagaat cccagctgtg	300
tgtcag	gggct ggaaagggct cgggagtgcg cggggcaagt gaccgtgtgt gtaaagagtg	360
aggcgt	catga ggctgtgtcg gggcagaggc ccaagatct	399
<210>	20	
<211>	108	
<212>	DNA	
<213>	Artificial sequence	
<220>	Homo sapiens sequence with artificial 5' and 3' termini fig2 e psiUa-lam/psiUb-lam	sens
<223>	Homo sapiens sequence with artificial 5' and 3' termini fig2 s e psiUa-lam/psiUb-lam	ens
<220>	Homo sapiens sequence with artificial 5' and 3' termini fig2 e psi∪a-lam/psi∪b-lam	sens
<221>	misc_feature	
<222>	(1)(108)	
<223>	Homo sapiens sequence with artificial 5' and 3' termini fig2 see psiUa-lam/psiUb-lam	ens
<400> gatctc	20 atac agggcaattg gcagatcaag cgttgtgaag ccacagatga acgcttgatc	60
		108
<210>	21	
<211>	108	
<212>	DNA	
<213>	Artificial sequence	

	BOZZON~1.TXT
<220>	
<223>	Homo sapiens sequence with artificial 5' and 3' termini fig2 anti sense psiUa-lam/psiUb-lam
<220>	Homo sapiens sequence with artificial 5' and 3' termini fig2 anti sense psiUa-lam/psiUb-lam
<221>	misc_feature
<222>	(1)(108)
<223>	Homo sapiens sequence with artificial 5' and 3' termini fig2 anti sense psiUa-lam/psiUb-lam
<400> agtatg	21 tccc gttaaccgtc tagttcgcaa cacttcggtg tctacttgcg aactagacgg 60
ttaacg	ggaa ataggggact gaaagacctc aaagttttca tctgagtc 108
<210>	22
<211>	84
<212>	DNA
<213>	Artificial sequence
<220>	Homo sapiens sequence with artificial 5' and 3' termini fig2 sens e psiUc-lam/psiUd-lam/psiUcmut-lam
<223>	Homo sapiens sequence with artificial 5' and 3' termini fig2 sens e psiUc-lam/psiUd-lam/psiUcmut-lam
<220>	Homo sapiens sequence with artificial 5' and 3' termini fig2 sens e psiUc-lam/psiUd-lam/psiUcmut-lam
<221>	misc_feature
<222>	(1)(84)
<223>	Homo sapiens sequence with artificial 5' and 3' termini fig2 sens e psiUc-lam/psiUd-lam/psiUcmut-lam
<400> gatctc	22 gggc aattggcaga tcaagcgttt gtgtagcgct tgatctgcca attgccctta 60
ctttct	ggag tttcaaaagt agac 84
<210>	23
<211>	84
<212s	DNA

<213>	Artificial sequence	
<220>	Homo sapiens sequence with artificial 5' and 3' termini fig2sense psiUc-lam/psiUd-lam/psiUcmut-lam	2 anti
<223>	Homo sapiens sequence with artificial 5' and 3' termini fig2 sense psiUc-lam/psiUd-lam/psiUcmut-lam	anti
<220>	Homo sapiens sequence with artificial 5' and 3' termini fig2 sense psiUc-lam/psiUd-lam/psiUcmut-lam	2 anti
<221>	misc_feature	
<222>	(1)(84)	
<223>	Homo sapiens sequence with artificial 5' and 3' termini fig2 sense psiUc-lam/psiUd-lam/psiUcmut-lam	anti
<400> agcccg	23 ttaa ccgtctagtt cgcaaacaca tcgcgaacta gacggttaac gggaatgaaa	60
gacctc	aaag ttttcatctg agtc	84
<210>	24	
<211>	36	
<212>	DNA	
<213>	yeast sp.	
<400> tgactt	24 cgca tgaatgagtt cattcatgaa gcgaaa	3(6
<210>	25	
<211>	36	
<212>	DNA	•
<213>	yeast sp.	
<400> actgaa	25 gcgt acttactcaa gtaagtactt cgcttt	36
<210>	26	
<211>	77	
<212>	RNA	
<213>	Artificial sequence	

<220>	snRNA sequence fig2b psiUa-lam	
<223>	snRNA sequence fig2b psiUa-lam	
<220>	snRNA sequence fig2b psiUa-lam	
<221>	snRNA	
<222>	(1)(77)	
<223>	snRNA sequence fig2b psiUa-lam	
	26 ggca auuggcagau caagcguugu gaagccacag augaacgcuu gaucugccaa uuua uccccug	60 77
<210>	27	
<211>	67	
<212>	RNA	
<213>	Artificial sequence	
<220>	snRNA sequence fig2b psiUb-lam	
<223>	snRNA sequence fig2b psiUb-lam	
<220>	snRNA sequence fig2b psiUb-lam	
<221>	snRNA	
<222>	(1)(67)	
<223>	snRNA sequence fig2b psiUb-lam	
	27 ggca auuggcagau caagcguuug uguagcgcuu gaucugccaa uugcccuuua	60
uccccu	9	67
<210>	28	
<211>	53	
<212>	RNA	
<213>	Artificial sequence	
<220>	snRNA sequence fig2b psiUc-lam	
<223>	snRNA sequence fig2b psiUc-lam	
<220>	SNRNA sequence fig2h nsiuc_lam	

<221>	snRNA	
<222>	(1)(53)	
<223>	snRNA sequence fig2b psiUc-lam	
<400>	28	F 2
gggcaa	uugg cagaucaagc guuuguguag cgcuugaucu gccaauugcc cuu	53
<210>	29	
<211>	82	
<212>	RNA	
<213>	Artificial sequence	
<220>	snRNA sequence fig 2b psiUd-lam	
<223>	snRNA sequence fig 2b psiUd-lam	
<220>	snRNA sequence fig 2b psiUd-lam	
<221>	SNRNA	
	(1)(82)	
<223>	snRNA sequence fig 2b psiUd-lam	
400		
<400> gggcaaı	29 Jugg cagaucaagc guuugacuuc gcaugaauga guucauucau gaagcgaaac	60
gcuugaucug ccaauugccc uu		82